

# ACTIVITY FIVE—COMPANION ANIMAL OVERPOPULATION MATH SHEET

**I**n the United States alone, 8 to 10 million homeless dogs and cats are taken to animal shelters each year. A typical female dog will have two litters of six puppies each year. Assume that each litter has three males and three females. The answer to this math problem will help us understand why there are so many homeless dogs and cats.

## Part A

DIRECTIONS: After each sentence, write the correct number of dogs in the box.

|  |  |
|--|--|
| 1. Pretend you have ONE unspayed female dog. Her name is Bonnie. ....                                    | _____  |
| 2. In the spring, Bonnie has SIX puppies—three males and three females. ....                             | <div>+</div> <div>_____</div> <div>=</div> <div>_____</div> <div>TOTAL A</div>                               |
| 3. In the fall, Bonnie has her second litter of SIX puppies. ....  | _____  |
| 4. AND her THREE daughters have SIX puppies each. (3 x 6) ....   | <div>+</div> <div>_____</div> <div>=</div> <div>_____</div> <div>TOTAL B</div>                               |
| 5. The next spring, Bonnie has her third litter of SIX puppies. ....                                     | _____  |
| 6. Her SIX daughters each have a litter of SIX puppies. (6 x 6). ....                                    | <div>+</div> <div>_____</div> <div>+</div> <div>_____</div> <div>=</div> <div>_____</div> <div>TOTAL C</div> |
| 7. AND her NINE granddaughters each have a litter of SIX. puppies (9 x 6) ....                           | _____  |
| 8. The next fall, Bonnie has her fourth litter of SIX puppies. ....                                      | _____  |
| 9. Her NINE daughters each have a litter of SIX puppies (9 x 6) ....                                     | <div>+</div> <div>_____</div> <div>+</div> <div>_____</div> <div>=</div> <div>_____</div> <div>TOTAL D</div> |
| 10. AND her 54 granddaughters and great-granddaughters each have a litter of SIX puppies. (54 x 6). .... | _____  |

  

|       |   |       |   |       |   |       |   |       |
|-------|---|-------|---|-------|---|-------|---|-------|
| _____ | + | _____ | + | _____ | + | _____ | = | _____ |
| A     |   | B     |   | C     |   | D     |   | TOTAL |

## Part B

What should have been done for Bonnie so that at the end of two years, you would have had just one dog?

Write your ideas here:

